

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 14131WO02	FOR FURTHER ACTION		see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US 03/36255	International filing date (day/month/year) 13/11/2003	(Earliest) Priority Date (day/month/year) 14/11/2002	
Applicant GENERAL ELECTRIC MEDICAL SYSTEMS GLOBAL ...			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 9 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

4
☐ None of the figures.

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International application No.
PCT/US 03/36255

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9, 18-20

fixator in a surgical instrument tracking system

2. claims: 10-17

tracking the position of a surgical instrument relative to
an image of a patient body

3. claims: 21-32,37-41

expanding the operating range of a tracking system

4. claims: 33-36

dual fixator

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01S5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01S A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A Y Y	US 2002/032380 A1 (BEJERANO YANIV ET AL) 14 March 2002 (2002-03-14) figures 3,4 paragraph '0028! - paragraph '0033! paragraph '0041!	1-6 18,19 10-17 7,8
A	WO 01/01845 A (PALTIELI YOAV ; SELLA DOV (IL); ULTRAGUIDE LTD (IL); SEGALESCU VICTOR) 11 January 2001 (2001-01-11) figure 14 page 25, line 12 - page 26, line 16 page 23, lines 1-10 page 24	1
Y	----- -/--	37-40

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

13 July 2004

Date of mailing of the international search report

04.08.2004

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Kern, O

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/30257 A (WINCHESTER DEV ASSOCIATES ; HUNTER MARK W (US); KESSMAN PAUL (US); MCC) 3 May 2001 (2001-05-03) page 9, lines 7-10 page 3, line 8 - page 4, line 10	7,30
Y	-----	37-40
Y	US 6 161 032 A (ACKER DAVID E) 12 December 2000 (2000-12-12) column 6, lines 53-56; figure 1	8,9
X	column 9, line 57 - column 10, line 6 -----	41
Y	US 6 332 089 B1 (FENSTER MAIER ET AL) 18 December 2001 (2001-12-18)	9,31,32
A	figures 5,12,13 column 11, lines 25-31 column 16, lines 22-30 - lines 46-65 -----	20
X	US 2002/085681 A1 (JENSEN VERNON THOMAS) 4 July 2002 (2002-07-04) figure 1 paragraphs '0036! - '0040!, '0043! -----	10
P,X	US 2003/184285 A1 (BEAUREGARD GERALD L ET AL) 2 October 2003 (2003-10-02) figure 6 -----	10
P,X	US 6 636 757 B1 (SIMON DAVID ET AL) 21 October 2003 (2003-10-21) figures 2,14 -----	10
Y	WO 01/54579 A (SUPER DIMENSION LTD ; GILBOA PINHAS (IL); FRIEDMAN MARK M (IL)) 2 August 2001 (2001-08-02) abstract page 2, line 20 - page 3, line 8 figures 1a,1b -----	10-17
X	US 6 050 724 A (SCHMITZ GEORG ET AL) 18 April 2000 (2000-04-18)	21,22, 24,25, 27-29 30-32
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	WO 02/061371 A (Z KAT INC) 8 August 2002 (2002-08-08) page 3, lines 1-23 figure 5 -----	33-36
X	US 2002/095081 A1 (VILSMEIER STEFAN) 18 July 2002 (2002-07-18) abstract; figures 2-4 -----	33-36

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